PTO/SB/05 (06-03)
Approved for use through 07/31/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## UTILITY **PATENT APPLICATION TRANSMITTAL**

Attomey Docket No. | CIBT-P03-068 First Inventor Henryk Dudek

REGULATORS OF THE HEDGEHOG PATHWAY, COMPOSITIONS AND USES RELATED

(Only for new nonprovisional applications under 37 CFR 1.53(b))  Expres						TH	THERETO							
						ess Ma	ss Mail Label No. EV302402455US							
APPLICATION ELEMENTS  See MPEP chapter 600 concerning utility patent application contents.							AL	MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450						
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)  2. Applicant claims small entity status. See 37 CFR 1.27.  3. X Specification [Total Pages 105]  (preferred arrangement set forth below)  - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure  4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 19]  5. Oath or Declaration [Total Sheets 1]  a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deletting invertor(s) named in the prior application,						9. 10. 11. 12. 13. 14. 15.	Alexandria, VA 22313-1450  7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or ii. Paper  c. Statements verifying identity of above copies  ACCOMPANYING APPLICATIONS PARTS  9. Assignment Papers (cover sheet & document(s))  10. 37 CFR 3.73(b) Statement Power of Attorney  11. English Translation Document (if applicable)  12. X Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations  13. Preliminary Amendment  14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. Certified Copy of Priority Document(s) (if toreign priority is claimed)							
6. X Application Data Sheet. See 37 CFR 1.76							17.	17. X Other: Substitute Specification Marked-up Specification						
18	. If a	CONTINU	JING APPI or in an Aj	LICATION, che	eck appropriate bo Sheet under 37 (		-	-	ite inforn			d in the	e first sentence of the	e specification
							strun	•	• •	Art I Ini	·		1614	
Во	Prior application information: Examiner Clinton T. Ostrup Art Unit: 1614  For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.													
19. CORRESPONDENCE ADDRESS														
						2812	20			OR	<u> </u>	Correspondence add	fress below	
ROPES & GRAY LLP David P. Halstead, Ph.D.														
Address One International Place														
City Boston					State	MA				Zip Code 02110-2624				
Country			US Telephone				(61	(617) 951-7000				Fax	(617) 951-70	50
Ī	Nam	e (Print∕	Гуре)	David P. I	Halstead, Ph	.D.		Registration No. (Attorney/Agent					ot) 44,735	
Signature Signature									Date	_ C	ecember 12, 2	2003		

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV302402455US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

(Mary Jane DiPalma)

10070	18078
C.C.	ー つ 二

PTO/SB/17 (10-03)
Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL	l				Complete if Known				
FEE IKANSIVIIIIAL	Application Number					Not Yet Assigned			
for FY 2004		Filing Date				December 12, 2003			
		First f	Named Inventor			Henryk D	udek		
Effective 10/01/2003, Patent fees are subject to annual revision.		Examiner Name				Not Yet Assigned			
Applicant claims small entity status. See 37 CFR 1.27	Art Unit					Not Yet Assigned			
TOTAL AMOUNT OF PAYMENT (\$) 856.00		Attorney Docket No. CIBT-P03-068							
METHOD OF PAYMENT (check all that apply)	T T		-	FEE	CALCUL	ATION (co	ontinued)		
Credit Manay	, ,	DDITI	ONIAL						
Check Card Order Other None	] 3. A	DDITIO	JNAL	FEES	•				
X Deposit Account:	١.								
Deposit Account 18-1945	Fee	Entity Fee	Small Fee	Entity Fee	-				
Number	Code	(\$)	Code	(\$)		Fee Description			
Deposit Account Ropes & Gray LLP	1051	130	2051	65	Surcharge -	· late filing fe	e or oath		
Name The Director is authorized to: (check all that apply)	1052	50	2052	25	Surcharge – sheet.	late provision	onal filing fee or cover		
	1052	120	1053	120					
	1053	130	1053	130	Non-English	specificatio	n		
X Charge any additional fee(s) or any underpayment of fee(s)	1812	2,520	1812	2,520			parte reexamination		
Charge fee(s) indicated below, except for the filing fee	1804	920*	1804	920*	Examiner ad	ction	of SIR prior to		
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting Examiner ac	publication o	of SIR after		
FEE CALCULATION	1251	110	2251	55	Extension fo				
1. BASIC FILING FEE	1252	420	2252	210	Extension fo	r reply within			
Large Entity Small Entity	1253	950	2253	475	Extension fo	r reply within	n third month		
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Extension for	r reply within	n fourth month		
1001 770 2001 385 Utility filing fee 770.00	1255	2,010	2255	1,005	Extension fo	r reply withir	n fifth month		
1002 340 2002 170 Design filing fee	1401	330	2401	165	Notice of Ap	peal			
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief	in support o	f an appeal		
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for	•			
1005 160 2005 80 Provisional filing fee	1451 1452	1,510	1451			•	lic use proceeding		
SUBTOTAL (1) (\$) 770.00	1452	110 1,330	2452 2453	55 665		on to revive – unavoidable on to revive - unintentional			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,330	2501	665		ssue fee (or reissue)			
Extra Fee from	1502	480	2502	240	Design issue	•			
Claims below Fee Paid Total Claims 14 -20** = x = 0.00	1503	640	2503	320	•	ant issue fee			
Independent 4 -3** = 1 x 86.00 = 86.00	1460	130	1460	130		etitions to the Commissioner			
Claims 4 00.00 = 00.00 Multiple Dependent =	1807	50	1807	50		ocessing fee under 37 CFR 1.17(q)			
· · ·	1806	180	1806	180	=		on Disclosure Stmt		
Large Entity Small Entity Fee Fee Fee Fee Fee	l						ssignment per	<b></b>	
Code (\$) Code (\$) Fee Description	8021	40	8021	40	property (tim	ies number (	of properties)		
1202	1809	770	2809	385	(37 CFR 1.1	nission after 29(a))	final rejection		
1201   86   2201   43   Independent claims in excess of 3   1203   290   2203   145   Multiple dependent claim, if not paid	1810	770	2810	385	For each ad				
1204 86 2204 43 ** Reissue independent claims	1801	770	2801	385	examined (3 Request for		(D)) Examination (RCE)		
over original patent	1802	900	1802	900	Request for		xamination		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	Other	Other fee (specify)						$\vdash$	
SUBTOTAL (2) (\$) 86.00  **or number previously paid, if greater, For Reissues, see above	*Redu	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0						0.00	
SUBMITTED BY					(Complete	(if applicable))			
Name (Print/Type) David P. Halstead, Ph.D.		instration No. orney/Agent) 44,735 Telephone (617) 951-761							
Signature ST		tomey/regeny ,				December 12, 2	2003		

in an envelope addressed to:	spondence is being deposited w MS Patent Application, Commi			
date shown below.		 $\circ$	000	

Dated: December 12, 2003

Signature: Man Jan & PC

(Mary Jane DiPalma)